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(71) Applicant: **TOYOTA MOTOR CORP**

(72) Inventor: **HIRABAYASHI TAKESHI**

(54) PURIFICATION OF EXHAUST GAS

(57) Abstract:

PROBLEM TO BE SOLVED: To improve the reduction/purification efficiency of NOx by controlling the sulfur poisoning of the NOx absorbent of an exhaust gas purifying catalyst.

SOLUTION: In this purification method, an exhaust gas purifying catalyst in which a noble metal and an NOx absorbent are supported on a porous carrier is used. When the air fuel ratio of the mixed gas of fuel to be supplied to an internal combustion engine and air is lean, NOx in exhaust gas is absorbed in the catalyst, and when the air fuel ratio is stoichiometric-rich, the absorbed NOx is reduced into N_2 by a reducing gas in the exhaust gas and the noble metal. Hydrocarbons are added steadily to the catalyst in a concentration range in which a hydrocarbons concentration is at the lowest 1000 ppm, and lower than a value which makes the air fuel ratio of a lean mixed gas to be supplied to an internal combustion engine stoichiometric.